

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/726,211DATE: 11/09/96  
TIME: 16:23:16

INPUT SET: S13733.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

## (1) General Information:

(i) APPLICANT: Tormo, Mar  
Tari, Ana M.

Lopez-Berestein, Gabriel

(ii) TITLE OF INVENTION: INHIBITION OF Bcl-2 PROTEIN EXPRESSION BY  
LIPOSOMAL ANTISENSE OLIGODEOXYNUCLEOTIDES

(iii) NUMBER OF SEQUENCES: 7

## (iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Arnold, White &amp; Durkee

(B) STREET: P.O. Box 4433

(C) CITY: Houston

(D) STATE: Texas

(E) COUNTRY: United States of America

(F) ZIP: 77210

## (v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk

(B) COMPUTER: IBM PC compatible

(C) OPERATING SYSTEM: PC-DOS/MS-DOS

(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

## (vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US Unknown

(B) FILING DATE: Concurrently Herewith

(C) CLASSIFICATION: Unknown

## (viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: Wilson, Mark B.

(B) REGISTRATION NUMBER: 37,259

(C) REFERENCE/DOCKET NUMBER: UTXC:504

## (ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (512) 418-3000

(B) TELEFAX: (512) 474-7577

## (2) INFORMATION FOR SEQ ID NO:1:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 18 base pairs

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47 (B) TYPE: nucleic acid  
48 (C) STRANDEDNESS: single  
49 (D) TOPOLOGY: linear  
50  
51 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
52  
53 CAGCGTGCGC CATCCTTC 18  
54  
55  
56 (2) INFORMATION FOR SEQ ID NO:2:  
57  
58 (i) SEQUENCE CHARACTERISTICS:  
59 (A) LENGTH: 20 base pairs  
60 (B) TYPE: nucleic acid  
61 (C) STRANDEDNESS: single  
62 (D) TOPOLOGY: linear  
63  
64  
65 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
66  
67 ACGGTCCGCC ACTCCTTCCC 20  
68  
69  
70 (2) INFORMATION FOR SEQ ID NO:3:  
71  
72 (i) SEQUENCE CHARACTERISTICS:  
73 (A) LENGTH: 16 base pairs  
74 (B) TYPE: nucleic acid  
75 (C) STRANDEDNESS: single  
76 (D) TOPOLOGY: linear  
77  
78 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:  
79  
80 CTGAAGGGCT TCTTCC 16  
81  
82  
83 (2) INFORMATION FOR SEQ ID NO:4:  
84  
85 (i) SEQUENCE CHARACTERISTICS:  
86 (A) LENGTH: 5086 base pairs  
87 (B) TYPE: nucleic acid  
88 (C) STRANDEDNESS: single  
89 (D) TOPOLOGY: linear  
90  
91 (ix) FEATURE:  
92 (A) NAME/KEY: CDS  
93 (B) LOCATION: 1459..2175  
94  
95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
96  
97 GCGCCCGCCC CTCCGCGCCG CCTGCCCCGCC CGCCCGCCGC GCTCCCGCCC GCCGCTCTCC 60  
98  
99 GTGGCCCCGC CGCGCTGCCG CCGCCGCCGC TGCCAGCGAA GGTGCCGGGG CTCCGGGCCC 120

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**INPUT SET: S13733.raw**

153	TAC	GAG	TGG	GAT	GCG	GGA	GAT	GTG	GGC	GCC	GCG	CCC	CCG	GGG	GCC	GCC		1587
154	Tyr	Glu	Trp	Asp	Ala	Gly	Asp	Val	Gly	Ala	Ala	Pro	Pro	Gly	Ala	Ala		
155			30					35					40					
156																		
157	CCC	GCA	CCG	GGC	ATC	TTC	TCC	TCC	CAG	CCC	GGG	CAC	ACG	CCC	CAT	CCA		1635
158	Pro	Ala	Pro	Gly	Ile	Phe	Ser	Ser	Gln	Pro	Gly	His	Thr	Pro	His	Pro		
159		45					50					55						
160																		
161	GCC	GCA	TCC	CGC	GAC	CCG	GTC	GCC	AGG	ACC	TCG	CCG	CTG	CAG	ACC	CCG		1683
162	Ala	Ala	Ser	Arg	Asp	Pro	Val	Ala	Arg	Thr	Ser	Pro	Leu	Gln	Thr	Pro		
163	60					65					70					75		
164																		
165	GCT	GCC	CCC	GGC	GCC	GCC	GCG	GGG	CCT	GCG	CTC	AGC	CCG	GTG	CCA	CCT		1731
166	Ala	Ala	Pro	Gly	Ala	Ala	Ala	Gly	Pro	Ala	Leu	Ser	Pro	Val	Pro	Pro		
167					80					85					90			
168																		
169	GTG	GTC	CAC	CTG	GCC	CTC	CGC	CAA	GCC	GGC	GAC	GAC	TTC	TCC	CGC	CGC		1779
170	Val	Val	His	Leu	Ala	Leu	Arg	Gln	Ala	Gly	Asp	Asp	Phe	Ser	Arg	Arg		
171				95					100					105				
172																		
173	TAC	CGC	GGC	GAC	TTC	GCC	GAG	ATG	TCC	AGC	CAG	CTG	CAC	CTG	ACG	CCC		1827
174	Tyr	Arg	Gly	Asp	Phe	Ala	Glu	Met	Ser	Ser	Gln	Leu	His	Leu	Thr	Pro		
175			110					115					120					
176																		
177	TTC	ACC	GCG	CGG	GGA	CGC	TTT	GCC	ACG	GTG	GTG	GAG	GAG	CTC	TTC	AGG		1875
178	Phe	Thr	Ala	Arg	Gly	Arg	Phe	Ala	Thr	Val	Val	Glu	Glu	Leu	Phe	Arg		
179		125					130					135						
180																		
181	GAC	GGG	GTG	AAC	TGG	GGG	AGG	ATT	GTG	GCC	TTC	TTT	GAG	TTC	GGT	GGG		1923
182	Asp	Gly	Val	Asn	Trp	Gly	Arg	Ile	Val	Ala	Phe	Phe	Glu	Phe	Gly	Gly		
183	140					145					150					155		
184																		
185	GTC	ATG	TGT	GTG	GAG	AGC	GTC	AAC	CGG	GAG	ATG	TCG	CCC	CTG	GTG	GAC		1971
186	Val	Met	Cys	Val	Glu	Ser	Val	Asn	Arg	Glu	Met	Ser	Pro	Leu	Val	Asp		
187					160					165					170			
188																		
189	AAC	ATC	GCC	CTG	TGG	ATG	ACT	GAG	TAC	CTG	AAC	CGG	CAC	CTG	CAC	ACC		2019
190	Asn	Ile	Ala	Leu	Trp	Met	Thr	Glu	Tyr	Leu	Asn	Arg	His	Leu	His	Thr		</

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206 Leu Ser His Lys  
207  
208  
209 TCACTAAAGC AGTAGAAATA ATATGCATTG TCAGTGATGT ACCATGAAAC AAAGCTGCAG 2275  
210  
211 GCTGTTTAAG AAAAAATAAC ACACATATAA ACATCACACA CACAGACAGA CACACACACA 2335  
212  
213 CACAACAATT AACAGTCTTC AGGCAAAACG TCGAATCAGC TATTTACTGC CAAAGGGAAA 2395  
214  
215 TATCATTTAT TTTTACATT ATTAAGAAAA AAGATTTATT TATTTAAGAC AGTCCCATCA 2455  
216  
217 AAACCTCCGTC TTTGGAAATC CGACCACTAA TTGCCAAACA CCGCTTCGTG TGGCTCCACC 2515  
218  
219 TGGATGTTCT GTGCCTGTAA ACATAGATTC GCTTTCCATG TTGTTGGCCG GATCACCATC 2575  
220  
221 TGAAGAGCAG ACGGATGGAA AAAGGACCTG ATCATTTGGGG AAGCTGGCTT TCTGGCTGCT 2635  
222  
223 GGAGGCTGGG GAGAAGGTGT TCATTCACTT GCATTTCTTT GCCCTGGGGG CGTGATATTA 2695  
224  
225 ACAGAGGGAG GGTTCCTCGTG GGGGGAAGTC CATGCCCTCCC TGGCCTGAAG AAGAGACTCT 2755  
226  
227 TTGCATATGA CTCACATGAT GCATACCTGG TGGGAGGAAA AGAGTTGGGA ACTTCAGATG 2815  
228  
229 GACCTAGTAC CCACTGAGAT TTCCACGCCG AAGGACAGCG ATGGGAAAAA TGCCCTTAAA 2875  
230  
231 TCATAGGAAA GTATTTTTTT AAGCTACCAA TTGTGCCGAG AAAAGCATTT TAGCAATTTA 2935  
232  
233 TACAATATCA TCCAGTACCT TAAACCCTGA TTGTGTATAT TCATATATTT TGGATACGCA 2995  
234  
235 CCCCCCAACT CCCAATACTG GCTCTGTCTG AGTAAGAAAC AGAATCCTCT GGAACCTGAG 3055  
236  
237 GAAGTGAACA TTTCGGTGAC TTCCGATCAG GAAGGCTAGA GTTACCCAGA GCATCAGGCC 3115  
238  
239 GCCACAAGTG CCTGCTTTTA GGAGACCGAA GTCCGCAGAA CCTACCTGTG TCCCAGCTTG 3175  
240  
241 GAGGCCTGGT CCTGGAAGTG AGCCGGGCCC TCACTGGCCT CCTCCAGGGA TGATCAACAG 3235  
242  
243 GGTAGTGTGG TCTCCGAATG TCTGGAAGCT GATGGATGGA GCTCAGAATT CCACTGTCAA 3295  
244  
245 GAAAGAGCAG TAGAGGGGTG TGGCTGGGCC TGTCACCCTG GGGCCCTCCA GGTAGGCCCC 3355  
246  
247 TTTTCACGTG GAGCATAGGA GCCACGACCC TTCTTAAGAC ATGTATCACT GTAGAGGGAA 3415  
248  
249 GGAACAGAGG CCCTGGGCCT TCCTATCAGA AGGACATGGT GAAGGCTGGG AACGTGAGGA 3475  
250  
251 GAGGCAATGG CCACGGCCCA TTTTGGCTGT AGCACATGGC ACGTTGGCTG TGTGGCCTTG 3535  
252  
253 GCCACCTGTG AGTTTAAAGC AAGGCTTTAA ATGACTTTGG AGAGGGTCAC AAATCCTAAA 3595  
254  
255 AGAAGCATTG AAGTGAGGTG TCATGGATTA ATTGACCCCT GTCTATGGAA TTACATGTAA 3655  
256  
257 AACATTATCT TGTCACGTGA GTTTGGTTTT ATTTGAAAAC CTGACAAAAA AAAAGTTCCA 3715  
258